

CANALS OF THE UNITED STATES

BY FREDERIC J. HASKIN.

Internal transportation in the United States, like ancient Gaul, is divided into three parts. These are country roads and pikes, canals and natural waterways, and railroads. To the optimistic student of commercial problems each of these methods is of equal importance, and should be so regarded by a wise and benevolent government when it chooses to make concessions or distribute favors. But to the majority of people the dirt roads over which the farmer must always wagon his grain or cotton, or the lumberman carry his logs, are a matter of small consideration, and the canals and rivers are of interest only to those whose territory they cross. It is the railroads that are looked upon as the steel-bound dependency when goods are to be sent, or a distant place visited.

Yet the railroad traffic of the 215,000 miles of operated roads in the United States is only twice as great per ton mile as that of the internal waterways, including the Great Lakes. The United States exports annually to foreign ports 21,000,000 tons of domestic merchandise, of a value approximating \$1,200,000,000, yet this tonnage is less than the amount that goes through the Detroit River in the eight months that it is open to traffic; is hardly half as much as that carried by the Hudson River; is less than that which passes down the Mississippi Valley, and is only three times as great as that of the Monongahela, which is classed as a "black-water" stream.

Henry Clay opposed the granting of land for the opening of the Sault Ste. Marie Canal, because it was "beyond the pale of civilization," yet the cities of Duluth, Superior, Sault Ste. Marie, and Ashland exist because it is a reality. It carried last year a total net tonnage of about 25,000,000. About 13,000 vessels passed through taking eastward 20,000,000 tons of wheat, 20,000,000 tons of other grain, and 500,000 tons of merchandise, including copper and lumber. During the eight months of the year that it is not ice-locked, the Soo has a traffic equal to three times that of the St. Lawrence, ten times that of Manchester, and eight times that of Kiel.

It is claimed that if this system of transportation were abolished, the cities it built would immediately die, because no system of railways could handle the enormous amount of products from the forests, mines, and farms that depend upon it. Even if the railways had the necessary tracks, the price would decrease the profit and the opportunities for growth. The cost of transportation by canal is only one-third of that by railway, and in open water it is even less. It is figured that with proper canal facilities connecting the navigable inland streams the nation could save 66 per cent on the present cost of transportation. Think what a saving would mean to the people of this country.

When Consul General Mason investigated the question of transportation in Germany, he declared that under ideal conditions a nation would see that its raw materials, such as coal, ore, timber, stone, cotton, grain, and crude materials, were carried by waterways, as haste was not so necessary, while the perishables, smaller packages, and passengers should be carried by the railroad. He said that the one method of transportation should supplement, not supplant, the other. The value of a farm or mine or a forest is based not on what it will produce for its owner, but on the cost of transporting those products, the nearness of railroads and canals figuring largely in the estimate. Hauling overland by teams costs 10 cents per ton, one mile, 25 cents; on railroads, 7.2 cents; by canal, 2.4, and by lakes, less than a mill a mile. The Pennsylvania Railroad's charges of 17 cents per ton mile were probably the highest we have ever had.

In comparison with this, the rates by boat are ridiculously small. A train must be loaded rapidly, and often the cars are not full; a boat or ship is not so pushed for time, and invariably carries a full cargo. A ship costs one-fifth as much as a train of equal tonnage to its carrying capacity. It lasts longer, and its running expenses are much less. At last accounts the average cost of moving freight in the United States per ton mile was \$0.22 by railway (exclusive of cost of management, structure, &c.); by steamer on the Great Lakes it was \$0.13, and on the canals a trifle more than the last, a difference that will be minimized when steam motive power is used. Boats carrying 2,200 tons go from Duluth to Buffalo in three and a half days, at a cost of \$10 a day, or \$0.05 per ton mile.

Foreign exports and imports equal only 5 per cent of our interstate commerce. On our 18,000 miles of navigable rivers we are carrying more than all Europe on her 80,000 miles of perfected waterways. One steamer going from Pittsburgh to New Orleans by river takes a load of thirty-two barges of coal, holding 600,000 bushels, and taking fifteen days for the trip. To do the same work it is figured that 100 freight trains of sixteen cars each would be needed, and that they could have to work all summer to deliver the coal. This is said to save in freight \$100,000.

John C. Calhoun, in a famous address, said: "Let us bind the republic together; let us conquer space by a perfect system of roads and canals." The partial fulfillment of his dream is found in the long inland voyages one may make, going now from Pittsburgh to Western Montana, by river, a distance of 4,300 miles, equal to that from New York to St. Petersburg. From St. Louis to New York City the water route follows a course that has not been first planned and man ingeniously perfected by means of artificial channels. From the Mississippi into the Illinois, through the Chicago Drainage Canal, up Lake Michigan to the Straits of Mackinac, down Lake Huron to Detroit, across to Buffalo, thence through the Erie Canal to the Hudson, a dream that Gov. Clinton realized for him in 1825. Though it was hoisted at and called "Clinton's Big Ditch" at first, this six-foot waterway made New York the richest State in the Union.

A recent writer has likened the canal system of the United States to a pyramid whose base is a line from Southern Texas to Northern Montana, and whose apex is Boston. From this apex vessels can go to forty States, and come in contact with 90 per cent of the wealth and the population of the United States. Only Nevada, Wyoming, Colorado, and New Mexico have been denied natural or artificial waterways, but the rest of the country has latent if not active powers in this line of development. New England utilized her waters for mill power, just as the Dutch settlers of the Middle At-

lantic States, true to the inherited tendencies of their race, used them for roads to market.

Through Rhode Island, Delaware, New Jersey, Maryland, Virginia, and North Carolina, there runs an almost unbroken line of small canals that have made the commerce of those sections. From Albemarle Sound around through Georgia and Florida, the line is broken, though it brings in the important Lake Borge Canal that is seven miles long, connecting Lakes Maurepas, Pontchartrain, and Borge; Mississippi Sound, and the Mobile, Alabama, and Warrior Rivers. It saves vessels a sixty-mile trip.

The United States does not consider its 3,000 miles of canals by any means sufficient. Boston has at last awakened to the fact that much time is lost in skirting Cape Cod by steamer, and has devised a canal that will cut across this neck. Another that she has discussed would cut across country from Narragansett Bay to Boston, and save many more hours journey on sometimes dangerous waters. The old Chesapeake and Ohio Canal may be made to further fulfill Washington's ideas and be cut through the ridges to Pittsburgh, where 10,000,000 tons of coal, iron, and merchandise already pass yearly. The proposed Lake ship canal from Pittsburgh to Lake Erie would also increase the already great commercial and manufacturing interests of that city, and offer even wider possibilities for internal development. To extend the Chicago drainage canal to St. Louis would insure a deep waterway 527 miles long, protected by dams and locks that would cost \$25,000,000, and which would be more than worth it.

The South, rich in mines and agricultural products, is also rich in inland waterways that need only to be knit together by canals to perfect its development. The Columbia River in Oregon, navigable for 100 miles to The Dalles, has hundreds of other miles of open waterway beyond that need only the cutting of a short canal to be made a great commercial route for the grain countries beyond. Another great project that the West is eager to see, one that would give to the nation a great harbor with unsurpassed navy yard facilities, is that of cutting a canal from Puget Sound and Elliott Bay to Lake Washington and Lake Union, which lie east of Seattle. This would secure to Seattle a water-front of many miles, with facilities for warehouse, storage, and shipping increased a hundred-fold.

To-morrow—"Value of Uncle Sam's Birds."

Funeral of Mrs. Mark To-day.
The body of Mrs. George A. Mark, sister of John Joy and Joseph R. Edison, who died at her residence, 814 S. Street northwest, Thursday night, will be buried from the residence of her brother, at 1234 Sixteenth street, to-day at 2 p. m. About a week ago Mrs. Mark caught a severe cold which later developed into pneumonia. While it was realized that Mrs. Mark was seriously ill, her condition was not supposed to be critical, and her death was a surprise to her relatives. One son, Leroy Mark, survives her. She was the widow of George A. Mark, for a long time employed here in the Library of Congress. Mr. Mark was a graduate of Bowdoin College and a classmate of Thomas B. Reed. Messrs. E. H. Droup, R. B. Carver, J. K. Heyl, J. R. Thomas, Frank H. Edmonds, and George W. White are to act as pallbearers.

Becoming Mode for the Young Miss.



In planning gowns for a young girl several dresses of nice materials are usually desired, and a design for one very simple and pleasing is shown. The double yokes are quite a la mode, and should be made of different materials. In the wash dress a Valenciennes may form the inner yoke, while tucking and lace or embroidery may offer a pleasing contrast in the outer one. Pencil little cuffs to be made of the same material as the yoke finish the sleeves at the elbow, or, if preferred, the deep cuff may be used to the wrist. The waist and skirt are both plaited so that a graceful fullness is assured, and the whole may be as elaborate or simply dressed as desired. For the medium size 7½ yards of 24-inch goods are needed. Cashmere, pongee, or a washing fabric may develop the dress. Sizes, 12, 14, 16 years.

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THANKS TO THE WEATHER

BY JOANNA SINGLE.

It was the weather, in the first place, thought Edith, as she watched the rain beat against the window. If she and Richard had not been caught in a sudden shower to the utter ruin of her very prettiest dress, she would never have been irritated and quarreled with him about nothing at all, and she would not have expected him to take the fault upon himself, when she alone—after the weather—was to blame. And now it had rained for nearly a week and the inaction was driving her wild; she could only think, think, and vainly try to overcome her pride, and send for him.

For the thousandth time she drew from her dress his last letter, and reread it: "Dearest: We have been friends and neighbors and sweethearts all our lives and should not let anything come between us. I love you, and if you will just send me one word saying you want me, I will come at your call and forget the nothing we quarreled about. Should we let anything so childish part us? I look for a word from you. If it does not come I shall know that you really meant to break our engagement, and shall of course, not trouble you. But you couldn't have meant it, Edith?"

"Fraternally yours," "RICHARD COPELAND."

That was all, but she had sent him no word, thinking that in time he would come anyhow, and then she would, of him, coax her out of her anger. But he had not come, and she could not fail to respect him for refusing to be played with. So she was very wretched and blamed her own pride and the weather. The rain beat down warmly and intermittently, and all nature expanded and thrived under its moist influence. Edith looked across the fields to the south to Richard's home, which one day was to have been also hers, and saw him in the old way about nothing in particular. And if he made it easy for her, ask him to come to see her that evening? Strong in this new resolve she looked to see where she was, and realized that after a long detention she was about a mile below Richard's house, which she must pass. She could not go back, for it was probably now evening. The sun threatened to break through the clouds near the horizon. The rain had entirely ceased. She felt tired, but happier, and quiet after the relief of tears.

Then she remembered a way through Richard's fields that they had often taken. That the clouds were less dark, here and there was a gleam of blue, though the warm wind still blew intermittent drops into her face. She drew her collar closely about her neck and pulled her cap over her eyes and rode on with her own thoughts.

At last an idea came to her. Why not 'phone to Richard? Just call him up and talk to him in the old way about nothing in particular? And if he made it easy for her, ask him to come to see her that evening? Strong in this new resolve she looked to see where she was, and realized that after a long detention she was about a mile below Richard's house, which she must pass. She could not go back, for it was probably now evening. The sun threatened to break through the clouds near the horizon. The rain had entirely ceased. She felt tired, but happier, and quiet after the relief of tears.

and, above all, the tell-tale letters. She wished her writing was finer—she could see that hateful, "I love you" from where she now was! He lifted his hat and was getting down to hand her the letters when she stopped him.

"Richard Cope land, you go right away. Don't touch them. I will get them myself."

"You can't. You'd get stuck in the mud. Let me."

"If you do, I'll—hate you."

"If you do anyway, and besides, I won't look at whatever it is you seem to value so."

He coolly dismounted, but she sprang down ahead of him and snatched at them, sinking to her knees in the slush. Richard started and Richard called "Who?" but gave the poor beast a slap with his whip that sent her on a mad gallop for home. He held Colonel by the bridle. Edith faced him.

"Now, Edith," he said, "hate me or not. You will have to get on Colonel and be taken home. Come—dear."

"I'll die here first!" He mounted, and, riding close to her, suddenly caught her in his arms and drew her struggling and angry to the saddle in front of him.

"Edith," he said, "I couldn't help seeing the 'I love you' on the letter you were so anxious about. Was it written for me?"

Suddenly she felt that she could bear it no longer. She turned her face against his shoulder and cried, and he smoothed back her long hair and held her very close. Her pride was quite gone; she was in tears and a fright, generally. She felt that it was positively a miracle that he could still love her. He kissed the only available place, which happened to be her left ear. Then he asked her again about the letter.

"I meant it for you," she owned, "but I couldn't send it, and I was miserable."

He laughed softly, and bade her look up, and Colonel seemed understood that he was expected to go very, very slow.

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A "New Idea in American Politics" in Sunday's issue of The Washington Herald.

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